

## CLAIMS

## 1. A viscous material application apparatus

comprising:

5       a main body having a pressurized chamber for storing a viscous material, the pressurized chamber connecting through to a discharge port;

          a viscous material supply device for transferring said viscous material under pressure to said pressurized chamber;

10      and

          a discharge pressure regulating device for regulating a discharge pressure of said viscous material by increasing and decreasing a capacity of said pressurized chamber when said viscous material inside said pressurized chamber is

15      pressurized and discharged,

          wherein the discharge pressure regulating device includes a pouch which is positioned inside the pressurized chamber and which increases and decreases in internal capacity through intake and exhausting of gas, and an air supply section for regulating pressure inside said pouch by either one of supplying gas to, and discharging gas from said pouch.

## 2. The viscous material application apparatus

25      according to claim 1, wherein following filling of said

pressurized chamber with said viscous material using said viscous material supply device, residual supply pressure remaining inside said pressurized chamber is absorbed by said pouch.

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3. The viscous material application apparatus according to claim 1, wherein a temperature of said viscous material is stabilized by exchanging gas inside said pouch.

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4. A viscous material application apparatus comprising:

a main body having a pressurized chamber for storing a viscous material, the pressurized chamber connecting through to a discharge port;

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a viscous material supply device for transferring said viscous material under pressure to said pressurized chamber; and

a discharge pressure regulating device for regulating a discharge pressure of said viscous material by increasing 20 and decreasing a capacity of said pressurized chamber when said viscous material inside said pressurized chamber is pressurized and discharged,

wherein the discharge pressure regulating device includes an actuator such as an air cylinder and a voice coil motor, and a diaphragm which transforms under influence

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of said actuator and increases and decreases capacity inside said pressurized chamber.

- 5        5. A viscous material application apparatus comprising:
- a main body having a single pressurized chamber for storing a viscous material, the pressurized chamber connecting through to a single discharge port;
- a plurality of viscous material supply devices for transferring said viscous material under pressure to said pressurized chamber, all of said plurality of viscous material supply devices containing the same type of viscous material; and
- a single discharge pressure regulating device for regulating a discharge pressure of said viscous material by increasing and decreasing a capacity of said pressurized chamber when said viscous material inside said pressurized chamber is pressurized and discharged, the discharge pressure regulating device being provided either inside said pressurized chamber or facing said pressurized chamber,
- wherein the pressurized chamber, the discharge pressure regulating device and the discharge port are shared across the plurality of linearly aligned viscous material supply devices, and a discharge pressure of said viscous material at discharge positions along an alignment direction

of said viscous material supply devices is regulated in a single batch.

6. A viscous material application apparatus  
5 comprising:

a main body having a pressurized chamber for storing a viscous material, the pressurized chamber connecting through to a discharge port;

10 a viscous material supply device for transferring said viscous material under pressure to said pressurized chamber; and

15 a plurality of discharge pressure regulating devices for regulating a discharge pressure of said viscous material at a discharge position by increasing and decreasing a capacity of said pressurized chamber when said viscous material inside said pressurized chamber is pressurized and discharged, the discharge pressure regulating devices being provided either inside said pressurized chamber or facing said pressurized chamber.

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7. A viscous material application method wherein a single pressurized chamber, discharge pressure regulating device and discharge port are shared across a plurality of linearly aligned viscous material supply devices which all 25 contain the same type of viscous material, a discharge

pressure of said viscous material is regulated in a single batch by increasing and decreasing a capacity of said pressurized chamber when said viscous material inside said pressurized chamber is pressurized and discharged, and said  
5 viscous material is moved inside said chamber and recovered into said chamber.